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Vishay Draloric

Ceramic Singlelayer DC Disc Capacitors, 1 kV_{DC} General Purpose



QUICK REFERENCE DATA						
DESCRIPTION	VALUE					
Ceramic Class	1	2				
Ceramic Dielectric	N750, Y5T, Y5U, Y5V					
Voltage (V _{AC})	1000					
Min. Capacitance (pF)	10	47				
Max. Capacitance (pF)	680	22 000				
Mounting	Radial					

MARKING

Marking indicates, capacitance, tolerance code, and rated voltage.

OPERATING TEMPERATURE RANGE

- 40 °C to + 85 °C

TEMPERATURE CHARACTERISTICS

Class 1 N750 (U2J) Class 2 Y5T, Y5U, Y5V

SECTIONAL SPECIFICATIONS

Climatic category (according to EN 60068-1): 40/085/21

FEATURES

• High capacitance in small sizes



- Wide range of different leadstyles
- Material categorization:
 For definitions of compliance please see www.vishay.com/doc?99912





RoHS COMPLIANT

APPLICATIONS

- Lighting ballasts
- SMPS

DESIGN

The capacitors consist of ceramic disc both sides of which are silver plated. Connection leads are made of tinned copper having diameters of 0.6 mm or 0.8 mm.

The capacitors may be supplied with straight or kinked leads having a lead spacing of 5.0 mm or 7.5 mm.

Coating is made of blue colored flame retardant epoxy resin in accordance with UL 94 V-0.

CAPACITANCE RANGE

10 pF to 22 nF

RATED VOLTAGE

 1 kV_{DC}

DIELECTRIC STRENGTH

1750 kV_{DC}, 2 s Component test

INSULATION RESISTANCE AT 500 VDC

 \geq 10 000 M Ω (60 s)

TOLERANCE ON CAPACITANCE

± 10 %, ± 20 %, - 20 % + 50 %

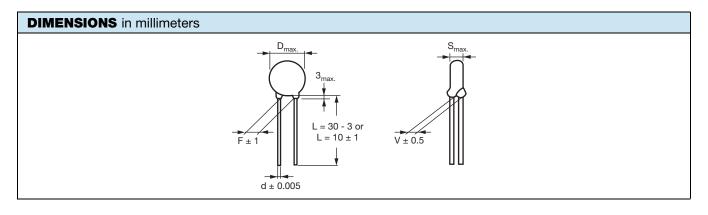
DISSIPATION FACTOR

Class 1:

C < 30 pF: $\left(\frac{100 \text{ pF}}{\text{C}} + 0.7\right) \times 10^{-4} \text{ max.} (1 \text{ MHz})$

 $C \ge 30 \text{ pF}$: Max. 0.1 % (1 MHz) Class 2: Max. 2.5 % (1 kHz)

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ORDERING INFORMATION							
CAPACITANCE (pF)	TOLERANCE (%)	BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING (1) F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE MISSING DIGITS SEE ORDERING CODE BELOW
N750 (U2J)							
10		7.0	3.0			1.4	HAU100KBAKR
15							HAU150KBAKR
22							HAU220KBAKR
33							HAU330KBAKR
47							HAU470KBAKR
68		8.0					HAU680KBAKR
82	± 10			7.5	0.6		HAU820KBAKR
100	± 10			7.5	0.6		HAU101KBAKR
150		10.0					HAU151KBAKR
220		11.0					HAU221KBAKR
330		12.5	3.5				HAU331KBAKR
470		14.5					HAU471KBAKR
560		10.5					HAU561KBAKR
680		16.5					HAU681KBAKR
Y5T (2D3)			•	•			
47							HAZ470.BAKR
56							HAZ560.BAKR
68							HAZ680.BAKR
82							HAZ820.BAKR
100		7.0				HAZ101.BAKR	
150		7.0		5.0	0.6	1.2	HAZ151.BAKR
220			3.0				HAZ221.BAKR
330	± 10, ± 20						HAZ331.BAKR
470							HAZ471.BAKR
680							HAZ681.BAKR
1000		0.0	1				HAZ102.BAKR
1500		9.0					HAZ152.BAKR
2200		11.0	1				HAZ222.BAKR
3300		13.0	1				HAZ332.BAKR
4700		15.0	1	7.5			HAZ472.BAKR



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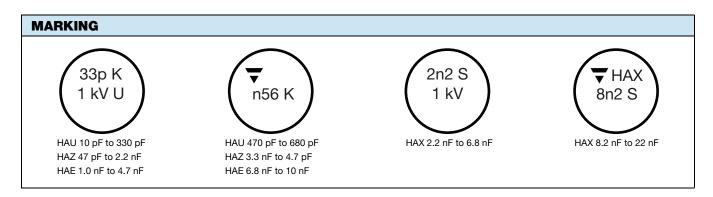
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ORDERING INFORMATION								
		BODY DIAMETER D _{max.} (mm)	BODY THICKNESS S _{max.} (mm)	LEAD SPACING ⁽¹⁾ F (mm) ± 1 mm	LEAD DIAMETER ⁽¹⁾ d (mm) ± 0.05 mm	WIDTH ⁽¹⁾ V (mm) ± 0.5 mm	ORDERING CODE	
CAPACITANCE (pF)	TOLERANCE (%)						MISSING DIGITS SEE ORDERING CODE BELOW	
Y5U (2E3)	Y5U (2E3)							
1000		7.0			0.6	1.2	HAE102MBAKR	
1500		0.0	3.0	5.0			HAE152MBAKR	
2200		9.0					HAE222MBAKR	
3300	± 20	11.0					HAE332MBAKR	
4700							HAE472MBAKR	
6800		13.0		7.5			HAE682MBAKR	
10000		15.0					HAE103MBAKR	
Y5V (2F3)								
2200	- 20/+ 50 ⁽²⁾	7.0			0.6	1.2	HAX222.BAKR	
3300		9.0	3.0	5.0			HAX332.BAKR	
4700							HAX472.BAKR	
6800		12.0		7.5			HAX682.BAKR	
10000							HAX103.BAKR	
15000		17.0					HAX153.BAKR	
22000		18.0					HAX223.BAKR	

Notes

^{(2) ± 20 %} available on request

ORDERING CODE							
•	7 th digit	Capacitano	Capacitance tolerance		± 10 % = K, ± 20 % = M, - 20 %/+ 50 % = S		
	10 th to 12 th digit	Lead configuration		see "General Information"			
Example	HAU	101	K	ВА	BFG	К	R
	Series	Capacitance value	Tolerance code	Voltage code	Lead configuration	Internal code	RoHS compliant



RELATED DOCUMENTS	
General Information	www.vishay.com/doc?22001

⁽¹⁾ Standard lead configuration, other lead spacing and diameter available on request



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Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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